

# Comparisons of Job Characteristics

**Focus Occupation:** Conservation Scientists (19-1031)

**Associated Occupation:** Environmental Science and Protection Technicians, Including Health (19-4091)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 70

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Environmental Science and Protection Technicians, Including Health (19-4091)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Computers and Electronics	8.4	13.6	11.1	<	Expanded education and/or training may be required
Chemistry	4.8	13.2	7.8	<<	Extensive education and/or training may be required
Biology	3.7	11.4	16.2	>>	Current knowledge level is likely more than sufficient
Public Safety and Security	6.9	11.1	10.3	0	Current knowledge level may be sufficient
Physics	4.3	9.9	7.5	<<	Extensive education and/or training may be required
Law and Government	5.9	9.8	11.4	>	Current knowledge level is likely sufficient
Geography	3.9	9.7	14.3	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Environmental Science and Protection Technicians, Including Health (19-4091)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Science	4.5	10.3	9.3	<	A higher skill level may be required
Mathematics	6.2	9.2	7.4	<	A higher skill level may be required
Operations Analysis	5.0	7.9	9.0	>	Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 95			
Focus Occupation: Conservation Scientists (19-1031)					
Associated Occupation: Environmental Science and Protection Technicians, Including Health (19-4091)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Written Expression	9.8	12.9	12.1	0	Current ability level may be sufficient
Near Vision	11.1	12.8	11.6	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	9.1	8.1	<	Some improvement in abilities may be required
Number Facility	6.3	9.0	8.1	<	Some improvement in abilities may be required
Rate Control	3.8	6.7	4.1	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 73
Focus Occupation: Conservation Scientists (19-1031) Associated Occupation: Environmental Science and Protection Technicians, Including Health (19-4091)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Advise clients or customers	19	
Advise governmental or industrial personnel	28	
Analyze biological research, test, or analysis data	70	
Analyze ecosystem data	69	
Analyze scientific research data or investigative findings	27	
Collect scientific or technical data	30	
Collect statistical data	47	
Communicate technical information	4	
Conduct field research or investigative studies	52	
Confer with scientists	54	
Determine specifications	67	
Develop or maintain databases	30	
Develop plans for programs or projects	31	
Develop policies, procedures, methods, or standards	21	
Develop tables depicting data	33	
Direct and coordinate activities of workers or staff	3	

Direct implementation of new procedures, policies, or programs	60
Ensure compliance with government regulations	76
Explain complex mathematical information	30
Explain rules, policies or regulations	48
Maintain records, reports, or files	5
Make decisions	24
Prepare reports	8
Prepare technical reports or related documentation	22
Recommend action to ensure compliance	73
Record test results, test procedures, or inspection data	48
Use computers to enter, access or retrieve data	3
Use government regulations	44
Use interpersonal communication techniques	10
Use interviewing procedures	23
Use knowledge of environmental laws and regulations	76
Use knowledge of investigation techniques	16
Use mathematical or statistical methods to identify or analyze problems	30
Use pollution control techniques	62
Use quantitative research methods	35
Use relational database software	26
Use scientific research methodology	21
Use spreadsheet software	18
Use word processing or desktop publishing software	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 86

**Focus Occupation: Conservation Scientists (19-1031)**

**Associated Occupation: Environmental Science and Protection Technicians, Including Health (19-4091)**

Tools and Technologies	Exclusivity
Cameras	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Industry specific software	1
Information exchange software	1
Network applications software	1
Sampling equipment	12
Soil measuring equipment	20

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.